VB-C300 Network Camera 2/5/2008
Architect & Engineer Specification
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Bid Spec

1.0 Description

Network camera should be of Pan/Tilt/Zoom type. The network camera shall have an ultra wide-angle lens. It shall be Power over Ethernet. Lens should have auto focus with entire image in focus. The network camera should be VGA resolution and have Motion-JPEG compression at up to 30 frames per second. Network camera shall have a high-sensitivity progressive scan CCD – smooth color images in very low light conditions. Camera should have auto day/night mode and simultaneous two-way audio.

2.0 Bid Specification

Technology:

a. The network camera shall use a genuine Canon wide-angle lens with a horizontal field of view of 70˚ and a vertical field of view of 51°.
b. Should have Pan (340°), Tilt (115°), and Zoom (2.4x Optical, 4x Digital).
c. Shall be capable of Power over Ethernet (PoE) power supply via LAN Connector (IEEE802.3af compliant).
d. Lens should have instant auto focus throughout image.
e. Video compression should be MJPEG.
f. Frame rate should be up to 30 fps even in 1 lux light.
g. Network camera should have three selectable resolutions of 640 x 480, 320 x 240, and 160 x 120.
h. Should have high-sensitivity progressive scan CCD.
i. Camera should have auto Day/Night switching mode with IR cut filter removal.
j. Shall have full-duplex two-way audio, G.711 μ-law (64kbps).
k. Shall have 20 presets for different angle views to be saved.
l. Should allow up to 15 users to access network camera simultaneously.

Image Adjustments

a. Network camera shall have auto focus and manual focus.
b. Network camera shall have auto white balance and manual white balance controls.
c. White balance shall have selectable light sources, ie. Mercury, Sodium, Florescent, Halogen
d. Network camera shall have manual settings for image quality.
e. Network camera shall have auto exposure and manual exposure controls.

User Friendly Features:

a. Network camera shall have auto MAC address detection upon plugging in power.
b. Network camera shall have auto power detection when using PoE, 24V AC, or 12V DC.
c. Network camera shall have panorama tool to allow for ease of quickly viewing a particular area.
d. Network camera shall allow date, time, presets, and panorama settings to be stored on board camera.
e. Network camera shall be capable of being powered over Ethernet.
f. Network camera shall keep all points of image in focus at all times.
g. Network camera shall Pan at a speed of 90 degrees per second and Tilt at a speed of 70 degrees per second.

Inputs and Outputs:

a. Network camera shall have 1 LAN port (RJ45, 100Base-TX/10Base-T auto negotiation)
b. Network camera shall have Audio IN/Out: 3.5 monaural mini-jacks. IN: connection to a microphone with amp and line output x 1. OUT: connection to a speaker with amp x 1.
c. Network camera shall have 1 Video Out, 3.5 monaural mini-jack. Video composite signal output from network camera x 1.
d. Network camera shall have External device I/O: input x 2, output x 1.
e. Network camera shall have port for optional AC Adapter.
f. Network camera shall have optional DC power input.

g. Network camera shall have optional connector for generic AC/DC power supply.

System Compatibility

a. Network camera shall be certified to be in compliance with PoE IEEE802.3af standard.

Ratings:

a. The network camera shall have power input of 100V to 240V/ 50/60Hz (using AC Adapter), 24VAC/12VDC.
b. Network camera shall have power consumption of Max. approx. 10W (PoE), Max. approx. 13W (AC Adapter).
c. Network camera shall not weigh more than 2.2 lbs, including ceiling bracket and ceiling mount cover.
d. Network camera shall have approx. dimensions of 4.79 inches x 5.19 inches x 5.11 inches.
e. Network camera shall be operated in an environment of -10° to 45°C and humidity of 20 to 85% RH.

Warranty

a. Network camera shall have a 1 year limited warranty parts and labor.

Specifications

Video Signal	Conforms to NTSC
Image Sensor	¼-inch CCD (primary color filter)
Number of Pixels	680,000 (effective 310,000)
Scanning Method	Progressive Scan
Min. Subject Illumination	Day Mode: 1 Lux (F2.0, color, 1/30 sec.) Night Mode: 0.25 lux (F2.0, monochrome, 1/30 sec.) Using the (optional) VB-RD41S-S Smoke Indoor Housing Dome Day Mode: 2 Lux (F2.0, color, 1/30 sec.) Night Mode: 2 lux (F2.0, monochrome, 1/30 sec.)
Imaging Modes	Day mode / Night mode
Focusing	Day mode: 11.8 in / Night mode: 23.6 in for Auto/Manual focusing at wide/telephoto ends
Aperture	Auto iris servo system
Lens	f= 3.0 to 7.2mm / F2.0 to 3.4 / 2.4 x power zoom (shooting at infinity)
Viewing Angle	Horizontal= 70.8° (W) to 29.6° (t) Vertical= 51.6° (W) to 22.1° (t) *including distortion
Pan Angle Range	340° (±170°)
Tilt Angle Range	Upright position= 115° (-25° to 90°) Inverted=115° (-90° to 25°)
Moving Rate	Pan= Max. 90° / sec. Tilt= Max. 70° / sec.
Infrared Cut Filter	Power-driven insertion / removal (Day mode / Night mode)
White Balance	TTL method: Auto / Manual preset / One-shot
Protocols	HTTP, DHCP, WV-HTTP (from Canon)
Video Compression Method	Motion-JPEG compression (movie) JPEG (still image)
Video Compression Rate	NTSC: 0.1fps-30fps
Audio Compression Method	G.711μ-law(64kbps) full duplex
Output Video Size	160 x 120, 320 x 240, 640 x 480
Camera Control	Pan, tilt, zoom, brightness, shutter speed, focus speed, white balance
Connection Controls	Access Control (with password), number of concurrent connections (max. 15)
Network	Network: LAN x 1 (RJ45, 100Base-TX / 10Base-T auto-negotiation)
Main Unit Interface	AUDIO IN/OUT: Ø3.5 monaural. mini-jack IN: Connection to a microphone with amp and LINE output x 1 OUT: Connection to a speaker with amp x 1 VIDEO OUT: Ø3.5 monaural. mini-jack Video composite signal output from network camera (for maintenance) x 1 External Device I/O: Input x 2, Output x 1
Dimensions	Approx. 4.79 in (H) x 5.19 in (W) x 5.11 in (D) (Main unit only, excluding rubber feet and ceiling bracket)
Weight	Approx. 1.73 lbs Approx. 2.15 lbs *For ceiling mount (including ceiling bracket and ceiling mount cover)
Operating Environment	Temperature= -10 - 45°C, humidity 20 - 85% RH (condensation free)
Power	Capable of PoE power supply via LAN connector (in accordance with IEEE802.3af compliant) 24VAC /12VDC, (using the Supplied Connector, *no polarity) AC adapter for 100VAC to 240 VAC
Power consumption	Max: Approx. 10W (PoE) Max: Approx. 13W (AC adapter)